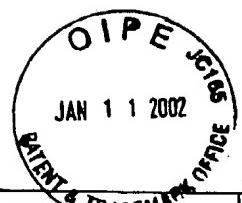




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List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant Muthiah Manoharan		
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
✓ DS	AA	Albert, P.R. et al., "Antisense knockouts: molecular scalpels for the dissection of signal transduction", <i>Trends Pharmacol. Sci.</i> , 1994, 15, 250-254			
*	AB	Ausubel, F.M. et al., (eds.), <i>Current Protocols in Molecular Biology, Current Publications, 1993</i> <i>Not Supplied</i>			
✓ D 8	AC	Baker, B.F. et al., "2'-O-(2-Methoxy)ethyl-modified Anti-intercellular Adhesion Molecule 1 (ICAM-1) Oligonucleotides Selectively Increase the ICAM-1 Translation Initiation Complex in Human Umbilical Vein Endothelial Cells", <i>J. Biol. Chem.</i> , 1997, 272, 11994-12000			
	AD	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2301-2310			
	AE	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2263-2277			
	AF	Berkow et al. (eds.), <i>The Merck Manual of Diagnosis and Therapy</i> , 15th Edition, Rahway, N.J., 1987, 2283-2287			
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	AH	Bernhard et al., "Direct Evidence Linking Expression of Matrix Metalloproteinase 9 (92-kDa gelatinase/collagenase) to the metastatic phenotype in transformed rat embryo cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 1994, 91, 4293-4297			
	AI	Birkedal-Hansen, "Proteolytic Remodeling of Extracellular Matrix," <i>Curr. Op. Cell Biol.</i> , 1995, 7, 728-735			
	AJ	Boggemeyer et al., "Borrelia Burgdorferi Upregulates the Adhesion Molecules E-selectin, P-selectin, ICAM-1 and VCAM-1 on Mouse Endothelioma Cells in vitro," <i>Cell Adhes. Commun.</i> , 1994, 2, 145-157			
✓	AK	Cook, P.D., "Medicinal chemistry of antisense oligonucleotides - future opportunities", <i>Anti-Cancer Drug Design</i> , 1991, 6, 585-607			
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<i>JDS</i>	AL	Crooke, S.T. et al., "Pharmacokinetic Properties of Several Novel Oligonucleotide Analogs in mice", <i>J. Pharmacol. Exp. Therapeutics</i> , 1996 , 277, 923-937		
	AM	Crooke, S.T. et al., "Progress in Antisense Oligonucleotide Therapeutic", <i>Ann. Rev. Pharmacol. Toxicol.</i> , 1996 , 36, 107-129		
	AN	Dean, N.M. et al., "Inhibition of protein kinase C- α expression in mice after systemic administration of phosphorthioate antisense oligodeoxynucleotides", <i>Proc. Natl. Acad. Sci.</i> , 1994 , 91, 11762-11766		
	AO	DeLisser et al., "Molecular and Functional Aspects of PECAM-1/CD31," <i>Immunol. Today</i> , 1994 , 15, 490-494		
	AP	Downward, "The ras Superfamily of Small GTP-binding proteins," <i>TIBS</i> , 15 , 1990, 469-472		
	AQ	Englisch, U. et al., "Chemically Modified Oligonucleotides as Probes and Inhibitors", <i>Angew. Chem. Int. Ed. Eng.</i> , 1991 , 30, 613-629		
	AR	Griffiths, C.E.M. et al., "Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1) Expression Precedes Derman T Lymphocyte Infiltration in Allergic Contact Dermatitis (<i>Rhus dermatitis</i>)", <i>Am. J. Pathology.</i> , 1989 , 135, 1045-1053		
	AS	Gum et al., "Stimulation of 92-kDa Gelatinase B Promoter Activity by ras Is Mitogen-activated Protein Kinase Kinase 1-independent and Requires Multiple Transcription Factor Binding Sites Including Closely Spaced PEA3/ets and AP-1 Sequences," <i>J. Biol. Chem.</i> , 1996 , 271, 10672-10680		
	AT	Hakugawa et al., "The Inhibitory Effect of Anti-Adhesion Molecule Antibodies on Eosinophil Infiltration in Cutaneous Late Phase Response in Balb/c Mice Sensitized with Ovalbumin (OVA)," <i>J. Dermatol.</i> , 1997 , 24, 73-79		
	AU	Hegemann, L. et al., "Biochemical Pharmacology of Protein Kinase C and its Relevance for Dermatology", <i>Pharmacology of the Skin</i> , Mukhtar, H. (ed.), CRC Press, Boca Raton, 1992 , Ch.22, 357-268		
<i>↓</i>	AV	Himelstein et al., "Proteases and Their Inhibitors in Invasion and Metastasis, Metalloproteinases in Tumor Progression: The Contribution of MMP-9," <i>Invasion Metastasis</i> , 1994-95 , 14, 246-258		
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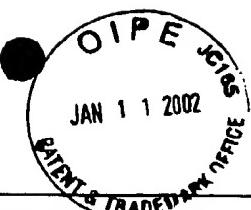
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List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant Muthiah Manoharan	
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	AX	Hua et al., "Inhibition of Matrix Metalloproteinase 9 Expression by a Ribozyme Blocks Metastasis in a Rat Sarcoma Model System," <i>Cancer Res.</i> , 1996 , 56, 5279-5284		
	AY	Hurtenbach et al., "Prednisolone Reduces Experimental Arthritis and Inflammatory Tissue Destruction in Scid Mice Infected with Borrelia Burgdorferi," <i>Int. J. Immunopharmac</i> , 1996 , 18, 281-288		
	AZ	Kabanov, A.V., "A new class of antivirals: antisense oligonucleotides combined with a hydrophobic substituent effectively inhibit influenza virus reproduction and synthesis of virus-specific proteins in MDCK cells", <i>FEBS Letts.</i> , 1990 , 259, 327-330		
	BA	Katocs, A.S. et al., "Biological Testing", <i>Remington's Pharmaceutical Sciences</i> , 18th Ed., Gennaro (ed.), Mack Publishing Co., Easton, PA, 1990 , Ch. 27, 484-494		
	BB	Kerr et al., "TGF-B1 Inhibition of Transin/Stromelysin Gene Expression Is Mediated Through a Fos Binding Sequence," <i>Cell</i> , 1990 , 61, 267-278		
	BC	Kerr et al., "Growth Factors Regulate Transin Gene Expression by c-fos-Dependent and c-fos-Independent Pathways," <i>Science</i> , 1988 , 242, 1424-1427		
	BD	Kroschwitz, J.I., "Polynucleotides", <i>Concise Encyclopedia of Polymer Science and Engineering</i> , 1990 , John Wiley & Sons, New York, 858-859		
	BE	Letsinger, R.L. et al., "Cholesteryl-conjugated oligonucleotides: Synthesis, properties and activity as inhibitors of replication of human immunodeficiency virus in cell culture", <i>Proc. Natl. Acad. Sci.</i> , 1989 , 86, 6553-6556		
	BF	Lisby, S. et al., "Intercellular adhesion molecule-1 (ICAM-1) expression correlated to inflammation", <i>Br. J. Dermatol.</i> , 1989 , 120, 479-484		
<i>↓</i>	BG	Litwin et al., "Novel Cytokine-independent Induction of Endothelial Adhesion Molecules Regulated by Platelet/Endothelial Cell Adhesion Molecule (CD31)," <i>The Journal of Cell Biology</i> , 1997 , 139, 219-228		
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<i>JDS</i>	BH	Manoharan, M. et al., "Introduction of a Lipophilic Thioether Tether in the Minor Groove of Nucleic Acids for Antisense Applications", <i>Bioorg. Med. Chem. Letts.</i> , 1993, 3, 2765-2770		
<i>JDS</i>	BI	Manoharan, M. et al., "Chemical Modifications to Improve Uptake and Bioavailability of Antisense Oligonucleotides", <i>Annals NY Acad. Sciences</i> , 1992, 660, 306-309		
*	BJ	Manoharan, M., <i>Antisense Research and Applications</i> , Crooke et al. (eds.), CRC Press, Boca Raton, 1993 <i>Not Supplied</i>		
<i>JDS</i>	BK	Manoharan M. et al., "Cholic Acid-Oligonucleotide Conjugates for Antisense Applications", <i>Bioorganic Med. Chem. Letts.</i> , 1994, 4, 1053-1060		
	BL	Manoharan, M. et al., "Lipidic Nucleic Acids", <i>Tetrahedron Letts.</i> , 1995, 36, 3651-3654		
	BM	Manoharan M. et al., "Oligonucleotide Conjugates: Alteration of the Pharmacokinetic Properties of Antisense Agents", <i>Nucleosides and Nucleotides</i> , 1995, 14, 969-973		
	BN	Martin, P., "Ein neuer Zugang zu 2'-O-Alkyribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chimica Acta</i> , 1995, 78, 486-504 (English summary included)		
	BO	Meyer, R.B. et al., "Efficient, Specific Cross-Linking and Cleavage of DNA by Stable, Synthetic Complementary Oligodeoxynucleotides", <i>J. Am. Chem. Soc.</i> , 1989, 111, 8517-8519		
	BP	Mishra, R.K. et al., "Improved leishmanicidal effect of phosphorothioate antisense oligonucleotides by LDL-mediated delivery", <i>Biochim. Et Biophysica</i> , 1995, 1264, 229-237		
	BQ	Newman, "The Biology of PECAM-1," <i>J. Clin. Invest.</i> , 1997, 99, 3-7		
<i>✓</i>	BR	Nies, A.S. et al., "Principles of Therapeutics", <i>Goodman & Gilman's The Pharmacological Basis of Therapeutics</i> , 9th Ed., Hardman et al. (eds.), McGraw-Hill, New York, NY, 1996, Ch. 3, 43-62		
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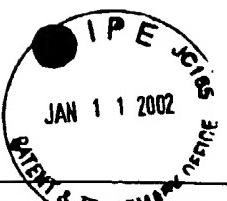
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List of Patent and Publications Cited by Applicant (Use several sheets if necessary)			Applicant Muthiah Manoharan	
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<i>105</i>	BS	Oberhauser, B. et al., "Effective incorporation of 2'-O-methyl-oligonucleotides into liposomes and enhanced cell association through modification with thiocholesterol", <i>Nucl. Acids Res.</i> , 1992, 20, 533-538		
	BT	Regezi et al., "Vascular Adhesion Molecules in Oral Lichen Planus," <i>Oral Surg. Oral Med. Oral Pathol.</i> , 1996, 81, 682-690		
	BU	Ruosahti, "Fundamental Understandings: How Cancer Spreads," <i>Sci. Am.</i> , 1996, 72-77		
	BV	Saison-Behmoaras, T. et al., "Short modified antisense oligonucleotides directed against Ha-ras point mutation induce selective cleavage of the mRNA and inhibit T24 cells proliferation", <i>EMBO J.</i> , 1991, 10, 1111-1118		
*	BW	Sambrook et al. (eds.), Molecular Cloning: A Laboratory Manual, Second Ed., Cold Spring Harbor Laboratory Press, 1989 <i>Not Supplied</i>		
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	BZ	Shea, R.G. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990, 18, 3777-3783		
	CA	Shiohara et al., "Fixed drug Eruption: Expression of Epidermal Keratinocyte Intercellular Adhesion Molecule-1 (ICAM-1)", <i>Arch. Dermatol.</i> , 1989, 125, 1371-1376		
	CB	Smith-Jones, P.M. et al., "Antibody Labeling with Copper-67 Using the Bifunctional Macrocycle 4-[(1,4,8,11-Tetraazacyclotetradec-1-yl)methyl] benzoic Acid", <i>Bioconjugate Chem.</i> , 1991, 2, 415-421		
	CC	Stetler-Stevenson et al., "Tumor Cell Interactions with the Extracellular Matrix During Invasion and Metastasis," <i>Annu. Rev. Cell Biol.</i> , Palade, G.E. et al. (eds.), 1993, 9, 541-573		
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	CE	Svinarchuk, F.P. et al., "Inhibition of HIV proliferation in MT-4 cells by antisense oligonucleotide conjugated to lipophilic groups", <i>Biochimie</i> , 1993, 79, 49-54		
	CF	U.S. Congress, Office of Technology Assessment, "The State-of-the-art in Genetic Screening", <i>Genetic Monitoring and Screening in the Workplace</i> , OTA-BA-455, U.S. Government Printing Office, Washington, D.C., 1990, Ch. 5, 77-99		
	CG	Wahlestedt, C. et al., "Modulation of Anxiety and Neuropeptide Y-Y1 Receptors by Antisense Oligodeoxynucleotides", <i>Science</i> , 1993, 259, 528-531		
	CH	Wahlestedt, C. et al., "Antisense oligodeoxynucleotides to NMDA-R1 receptor channel protect cortical neurons from excitotoxicity and reduce focal ischaemic infarctions", <i>Nature</i> , 1993, 363, 260-263		
	CI	Zhang, Z. et al., "Uptake of N-(4'-pyridoxyl)amines and release of amines by renal cells: A model for transporter-enhanced delivery of bioactive compounds", <i>Proc. Natl. Acad. Sci.</i> , 1991, 88, 10407-10410		
	CJ	Delgado, C. et al., "The Uses and Properties of PEG-Linked Proteins", <i>Crit. Rev. in Therapeutic Drug Carrier Sys.</i> , 1992, 9, 249-304		
	CK	Hamm, M. L. et al., "Incorporation of 2'-Deoxy-2'-mercaptopcytidine into Oligonucleotides via Phosphoramidite Chemistry," <i>J. Org. Chem.</i> , 1997, 62, 3415-3420		
	CL	Ouchi, T. et al., "Synthesis and Antitumor Activity of Poly(Ethylene Glycol)s Linked to 5'-Fluorouracil via a Urethane or Urea Bond", <i>Drug Des. & Disc.</i> , 1992, 9, 93-105		
	CM	Polushin, N. N. et al., "Synthesis of Oligonucleotides Containing 2'-Azido-and 2'-Amino-2'-deoxyuridine Using Phosphotriester Chemistry," <i>Tetra. Letts.</i> , 1996, 37(19), 3227-3230		
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	CT	Furdon, P. J. et al., "RNase H Cleavage of RNA hybridized to oligonucleotides containing methylphosphonate, phosphorothioate and phosphodiester bonds," <i>Nucl. Acids Res.</i> , 1989, 17, 9193-9204	
	CU	Gerwirtz, A. M. et al., "Facilitating oligonucleotide delivery: Helping antisense deliver on its promise," <i>Proc. Natl. Acad Sci.</i> , 1996, 93, 3161-3163	
	CV	Gura, T., "Antisense has Growing Pains," <i>Science</i> , 1995, 270, 575-577	
	CW	Jen, K.-Y. et al., "Suppression of Gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies," <i>Stem Cells</i> , 2000, 18, 307-319	
	CX	Kitajima, I. et al., "Ablation of Transplanted HTLV-I Tax-Transformed Tumors in Mice by Antisense Inhibition of NF- κ B," <i>Science</i> , 1992, 258, 1792-1795	
	CY	Leonetti, C. et al., "Antitumor effect of c-myc Antisense Phosphorothioate Oligodeoxynucleotides on Human Melanoma Cells in Vitro and in Mice," <i>J. Natl. Canc. Inst.</i> , 1996, 88(7), 419-429	
<i>↓</i>	CZ	Monia, B. P. et al., "Sequence-specific Antitumor Activity of a Phosphorothioate Oligodeoxyribonucleotide Targeted to Human C-raf Kinase Supports an Antisense Mechanism of Action In Vivo," <i>Proc. Natl. Acad. Sci. USA</i> , 1996, 93, 15481-15483	
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	DD	Offensperger et al., "In vivo inhibition of duck hepatitis B virus replication and gene expression by phosphorothioate modified antisense oligodeoxynucleotides", <i>The EMBO Journal</i> , 1993, 12(3), 1257-1262		
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	DF	Patil, S. V. et al., "Syntheses and Properties of Oligothymidylate Analogs Containing Stereoregulated Phosphorothioate and Phosphodiester Linkages in an Alternating Manner," <i>Bioorganic & Medicinal Chem. Letts.</i> , 1994, 4(22), 2663-2666		
	DG	Rojanasakul, Y., "Antisense oligonucleotide therapeutics: drug delivery and targeting," <i>Advanced Drug Delivery Reviews</i> , 1996, 18, 115-131		
	DH	Simons, M. et al., "Antisense c-myb oligonucleotides inhibit intimal arterial smooth muscle cell accumulation in vivo," <i>Nature</i> , 1992, 359, 67-70		
↓	DI	Stull, R. A. et al., "Antigene, Ribozyme and Aptamer Nucleic Acid Drugs: Progress and Prospects," <i>Pharmac. Res.</i> , 1995, 12, 465-483		
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List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Muthiah Manoharan	
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	DL	4,806,463	02/21/89	Goodchild et al.	435	5
	DM	5,004,810	04/02/91	Draper	536	27
	DN	5,166,195	11/24/92	Ecker	514	44
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	DP	5,212,295	05/18/93	Cook	536	26.7
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	DR	5,242,906	09/07/93	Pagano et al.	514	44
	DS	5,248,670	09/28/93	Draper et al.	514	44
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	DX	WO 94/08003	04/14/94	PCT	X	
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U.S. Department of Commerce Patent and Trademark Office		Filing Date September 27, 2001	Group Not Yet Assigned

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Examiner Initial		Document No.	Date	Name	Class	Subclass
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	EB	5,514,788	05/07/96	Bennett et al.	536	23.1
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	EK	5,599,797	02/04/97	Cook et al.	514	44
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✓	EM	5,620,963	04/15/97	Cook et al.	514	44

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Examiner Initial		Document No.	Date	Country	Translation
					YES NO

EXAMINER *SD Schutte* **DATE CONSIDERED** *6-5-2002*



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Form PTO-1449 Modified		Docket No. ISIS-4847	Serial No. 09/965,551
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Muthiah Manoharan	
U.S. Department of Commerce Patent and Trademark Office		Filing Date September 27, 2001	Group Not Yet Assigned

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Examiner Initial		Document No.	Date	Name	Class	Subclass
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EXAMINER JD Schutte

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